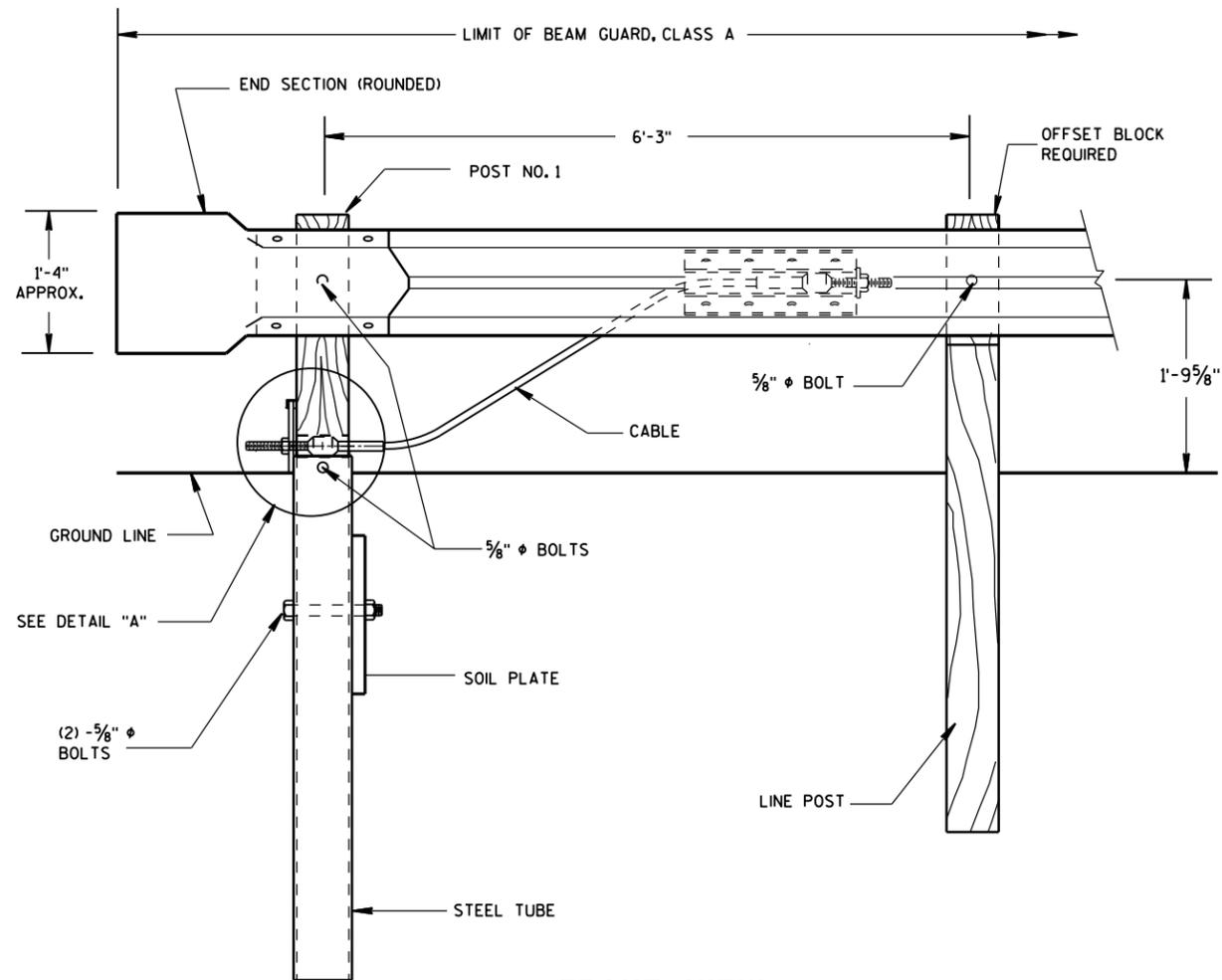


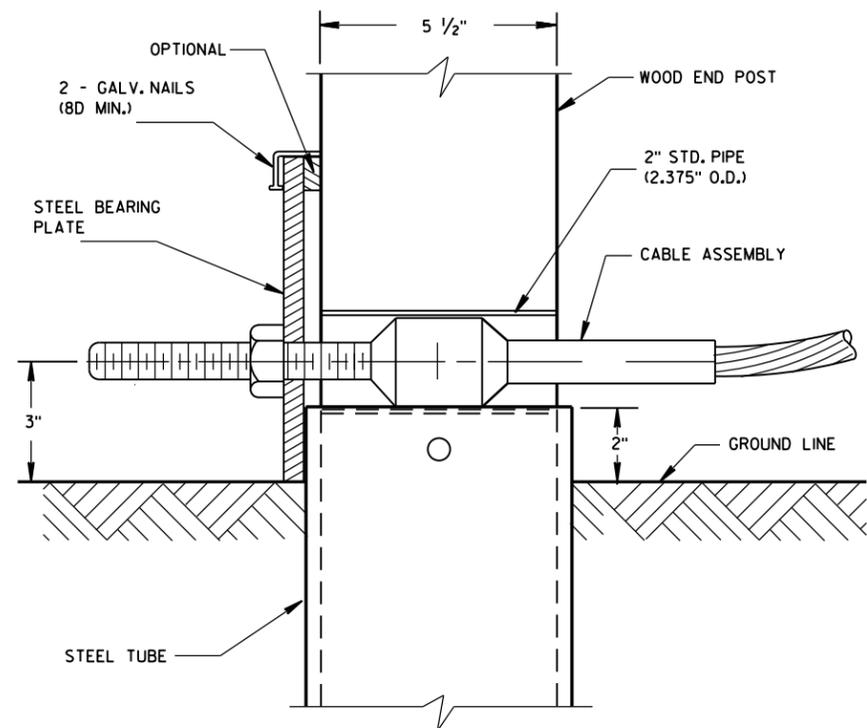
PLAN VIEW



FRONT VIEW

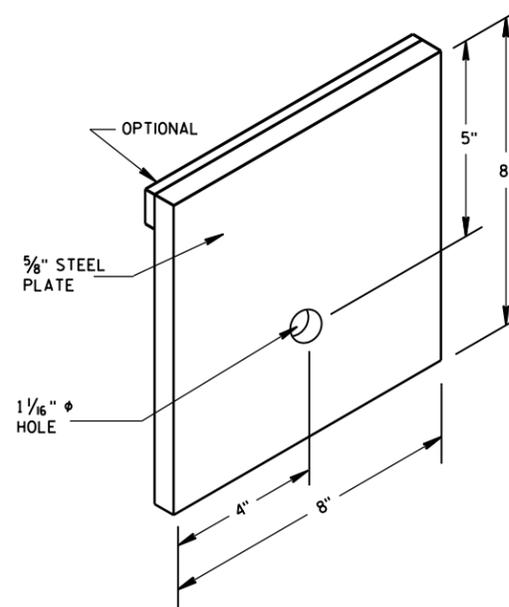
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1



STEEL BEARING PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

6

S.D.D. 14 B 16-4a

S.D.D. 14 B 16-4a

Anchorage for Steel Plate Beam Guard Type 2

References:

[FDM 11-45-30](#)

AASHTO Roadside Design Guide

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
614.0115	Anchorage for Steel Plate Beam Guard Type 2.....	EACH
614.0305	Steel Plate Beam Guard Class A.....	LF

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:

[SDD 14B15](#), [SDD 14B16](#) sheet "b" and [SDD 14B18](#) sheet "a" are required when this drawing is called for in the plans.

Design Notes:

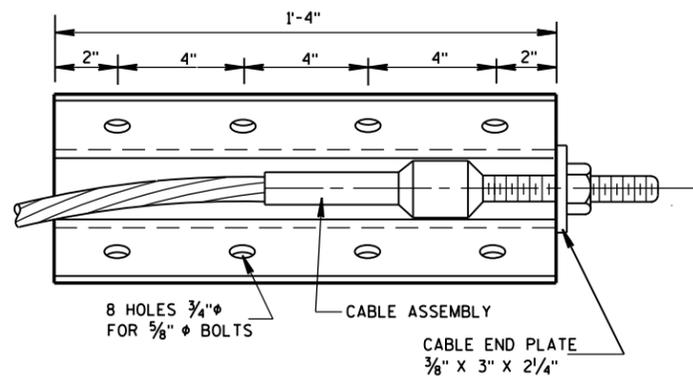
Projects with PSE due August 2011 or later are required to install MGS beam guard (MGS) for new beam guard installations. Some exceptions allowing the installation of new non-MGS beam guard may be granted by Bureau of Project Development (BPD). A few of these exceptions require minimum documentation (e.g. there is no short radius version of MGS designer would need to install non-MGS beam guard). Other exceptions require more documentation and discussion with Bureau of Project Development. Projects on the NHS or subject to FHWA oversight are to review the use of MGS with FHWA.

A Type 2 anchor shall only be used on the departing end of beam guard located along one-way roadways.

Contact Person:

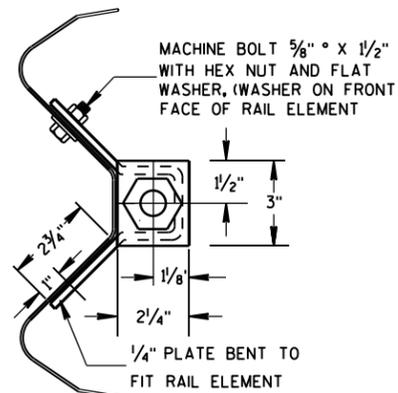
Erik Emerson (608) 266-2842

SDD 14B16-b Anchorage for Steel Plate Beam Guard Type 2

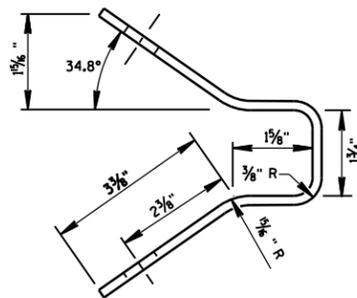


FRONT VIEW

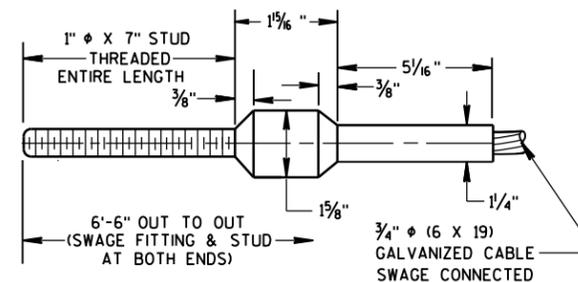
ANCHOR PLATE DETAIL



END VIEW



END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP A MINIMUM BREAKING STRENGTH OF 40,000 LB (TIGHTEN UNTIL TAUT)

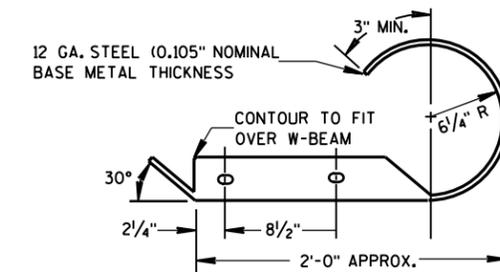
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

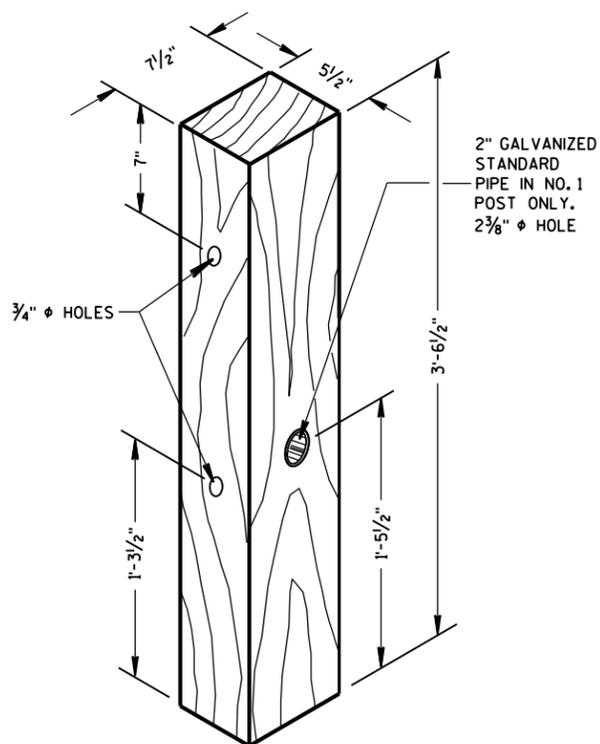
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

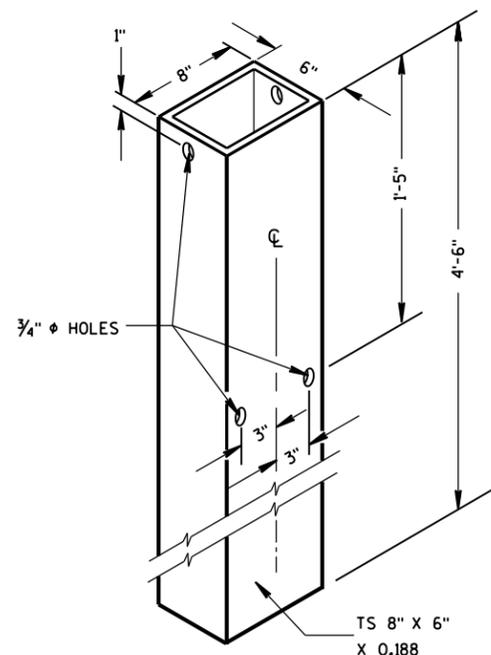
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE, WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

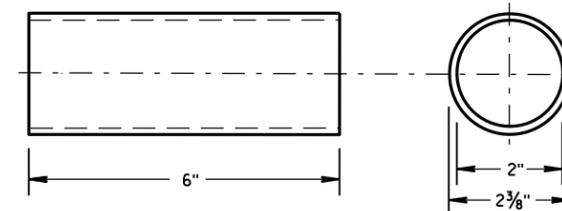


WOOD BREAKAWAY POST



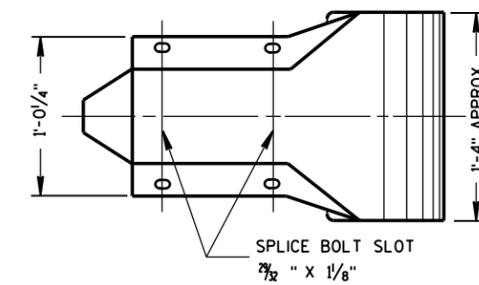
STEEL TUBE

STEEL TUBE SHALL CONFORM TO REQUIREMENTS OF ASTM A500



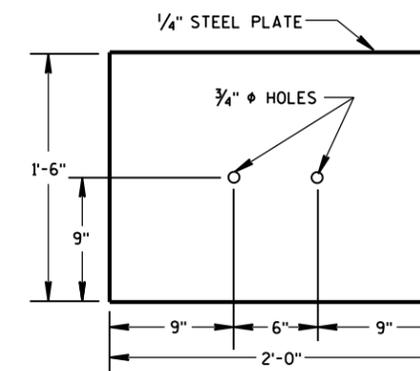
BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"



FRONT VIEW

W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/21/2007 DATE /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
 FHWA

Anchorage for Steel Plate Beam Guard Type 2**References:**[FDM 11-45-30](#)

AASHTO Roadside Design Guide

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
614.0010	Barrier System Grading Shaping Finishing	EACH
614.0115	Anchorage for Steel Plate Beam Guard, Type 2.....	EACH
614.0305	Steel Plate Beam Guard Class A.....	LF

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:[SDD 14B15](#) and [SDD14B18](#).[SDD 14B16](#), sheet "a" and [SDD14B18](#), sheet "a" are required when this drawing is called for in the plans.**Design Notes:**

Projects with PSE due August 2011 or later are required to install MGS beam guard (MGS) for new beam guard installations. Some exceptions allowing the installation of new non-MGS beam guard may be granted by Bureau of Project Development (BPD). A few of these exceptions require minimum documentation (e.g. there is no short radius version of MGS designer would need to install non-MGS beam guard). Other exceptions require more documentation and discussion with Bureau of Project Development. Projects on the NHS or subject to FHWA oversight are to review the use of MGS with FHWA.

For Non-Grading Type Projects with Beam Guard - (Resurfacing plus Beam Guard or Separate Beam Guard Project) use item 614.0010 - Barrier System Grading Shaping Finishing bid item.

List all items of work and round up the quantities for individual items and note them as "For Bid Information Only." Following is suggested table format for use on the Miscellaneous Quantities Sheet:

Barrier System Grading Shaping Finishing, Item 614.0010

Station Location (Anchorage Post # 1)	* Fill	* Borrow Exc.	* Salv. Topsoil	* Fert. Type ---	* Seeding	* Mulching	Each
	C.Y.	C.Y.	S.Y.	CWT.	L.B.	S.Y.	
STA.							
Totals							

* Items & Quantities listed for Bid Information Only. For quantities shown be very clear how many units Each are included in the table.

Options to use in displaying quantities:

- Show items and quantities for 1 Each, typical location.
- List each anchor location separately with respective quantities.
- Show items and quantities for all anchors inclusive, and indicate the quantity of anchors these totals are for.

Contact Person:

Erik Emerson (608) 266-2842